

Patent application of M. Harmon, K. Warner, B. Glaze, E. Ingham

for Compost Tea Machine

Page 21

**ABSTRACT:** The invention relates to an in home apparatus for simultaneously suspending, aerating, agitating, extracting and entraining a compost water nutrient culture. A beaker contains the compost nutrient water culture. A perforated elastic membrane transversely covers the open beaker bottom and is retained and compression sealed by a holder. The holder mates with a recess provided by upper portions of a base. The base contains a diaphragm air pump supplying air through the perforated elastic membrane releasing air bubbles into the compost, water nutrient culture in the beaker. Pulsating air supply from the diaphragm air pump vibrates the perforated elastic membrane which in combination with the sparging of air bubbles suspends the compost nutrient water culture preparing a high quality compost tea. The beaker, holder, and base easily engage and disengage for the proper cleaning and convenient in home preparation of compost tea.